RF RADIATION CALCULATIONS IN ACCORDANCE WITH OET BULLETIN 65

TOWER COORDINATES: 41°-18'-44"; 90°-22'-45" AMERICAN TOWER SITE ORION, ILLINOIS

November, 2002

Station	Frequency (MHz)	ERP (KW) (Visual for TV)	Antenna Height AGL(m)	Power Density (mW/cm²)	% FCC Public Exposure Max.
WQAD-DT(CP)	617	1000	326	0.012730	3.09
KWQC-DT(APP)	725	1000	324	0.012889	2.67
KLJB-DT(APP)	683	1000	324	0.012889	2.83
New DTV, Galesburg, IL	707	1000	322	0.013051	2.77
Prop. WQPT-DT	527	80	264	0.001557	0.44
New TV, Galesburg, IL	791	5000	312	0.034766	6.59
WQAD-TV	183	309	302	0.002294	1.15
New FM, Bettendorf, IA	91.1	20*	183	0.020396	10.20
				TOTAL	29.74

* Vertically polarized only

Notes:

The power densities were calculated at a point two meters above ground at the base of the tower, using Equation (9) or (10) of OET Bulletin 65, or Equation (2) of Supplement A of OET 65. All broadcast radiators within 300 meters horizontal distance are included above.

The aural ERP for the analog TV stations was assumed to be 10% of visual. A downward radiated field of 20% was used for all TV and DTV stations.

WQAD-TV, the new Galesburg TV station and the new Bettendorf FM station are specified as being on an adjacent tower.